

PATENT

INSTITUT FRANÇAIS DU PÉTROLE

5 **MOVING BED PROCESS FOR PRODUCING AROMATIC COMPOUNDS, INCLUDING
CATALYST REDUCTION**

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ABSTRACT

A moving bed process for producing aromatic compounds comprises at least a first step in which principally naphthene dehydrogenation is carried out in the presence of hydrogen in a mole ratio $(H_2)_1/(HC)$, said step being followed by at least one subsequent step carried out at a mole ratio $(H_2)_2/(HC)_2$, the process also comprising reducing the catalyst with hydrogen in a ratio $(H_2)_{red}/(HC)$. In accordance with the invention, $(H_2)_1/(HC) + (H_2)_{red}/(HC) \leq (H_2)_2/(HC)_2$, (HC) representing the molar quantity of feed in the first step and $(HC)_2$ that of the subsequent step, or $(H_2)_1/(HC) + (H_2)_{red}/(HC) > (H_2)_2/(HC)_2$, but where $(H_2)_1/(HC)$ is less than $(H_2)_2/(HC)_2$. Particular application to reforming.

20 Figure 2 to be published.